A.D. 1861, 10th *June*. N° 1475.

SPECIFICATION

OF

WILLIAM WELLER.

SUPPLYING FUEL TO FURNACES, &c.

LONDON:
PRINTED BY GEORGE E. EYRE AND WILLIAM SPOTTISWOODE,
PRINTERS TO THE QUEEN'S MOST EXCELLENT MAJESTY:
PUBLISHED AT THE GREAT SEAL PATENT OFFICE,
25, SOUTHAMPTON BUILDINGS, HOLBORN.
Price 3d.
1861.

A.D. 1861, 10th June. N° 1475.

Supplying Fuel to Furnaces, &c.

(*This Invention received Provisional Protection only.*)

PROVISIONAL SPECIFICATION left by William Weller at the Office of the Commissioners of Patents, with his Petition, on the 10th June 1861.

I, William Weller, of Mile End, in the County of Middlesex, Engineer, do hereby declare the nature of the said Invention for "Improved Apparatus for Supplying Fuel to Furnaces, Preventing or Consuming Smoke, and Economizing Fuel," to be as follows:—

This Invention consists of a chamber, box, or carriage placed upon wheels formed to run on a tramway or otherwise. In the interior of the chamber there is a plate or plunger fastened to a long screw fitting a nut fixed in the boss of a toothed wheel which works in bearings connected to or forming part of the chamber or carriage, so that when the wheel and nut are turned one way, the screw and plunger move forward, and when they are turned the reverse way the screw and plunger move backward, motion being given to the toothed wheel by a pinion and handle or other suitable contrivance. In order to feed the furnace the plunger is drawn back to its full extent, and the chamber filled with fuel, and then by turning the wheel and nut a forward motion is given to the plunger, which forces the fuel out of the chamber into the furnace. The chamber containing the fuel is furnished with a cover, and is nearly air-tight, and when it is pushed up close to the furnace door or doors the admission of cold air is prevented, which thus maintains the heat required for consuming the smoke, and thereby economizing the fuel. One or more racks may be substituted for the screw before mentioned, and motion given to them by pinions or worms; but in any case the apparatus may be worked by hand or power.

LONDON:
Printed by George Edward Eyre and William Spottiswoode,
Printers to the Queen's most Excellent Majesty. 1861.